

PTO/SB/01 (03-01)
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	DECLADATION FOR UTILITY OF		Attorney Docket Nur	nber	010949	
DECLARATION FOR UTILITY OR DESIGN		First Named Inventor		Weller et al.		
	PATENT APPLICATION (37 CFR 1.63)		COMPLETE IF KNOWN			
			Application Number	Una	nassigned	
	Declaration Submitted OR With Initial Filing Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)	Filing Date	He	rewith		
		Group Art Unit				
		Examiner Name				

	As a below named inventor, I he	reby declare that:		.	···	*
	My residence, mailing address, and	d citizenship are as state	ed below next to my nam	e.		
	I believe I am the original, first and names are listed below) of the sub	sole inventor (if only on ject matter which is clair	e name is listed below) o med and for which a pate	r an original, first nt is sought on th	and joint inventor	(if plural ed:
	MAGNETIC RECORDING	MEDIA HAVING S	SELF ORGANIZED	MAGNETIC A	ARRAYS	
4. t.u.						
		(Title of ti	he Invention)		·-···	
	the specification of which	(situatiy			
received than to the	X is attached hereto					
1 1 1	OR					
Ħ	was filed on (MM/DD/YYYY)		as United St	ates Application I	Number or PCT In	ternational
ļ.						
The first was	Application Number	and was a	amended on (MM/DD/YY	m	-	(if applicable).
Ш	<u> </u>			<u> </u>		
14	I hereby state that I have reviewed amended by any amendment special s	l and understand the conditionally referred to above	ntents of the above ident e.	ified specification	, including the cla	ims, as
	I acknowledge the duty to disclose in-part applications, material infom PCT International filing date of the	nation which became av continuation-in-part app	vailable between the filing plication.	date of the prior	application and the	ne national or
	I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT International application having a filing date before that of the application on which priority is claimed.					
<u></u>	Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Cop YES	by Attached?
\vdash_{r}	Additional foreign application	numbers are listed on a	supplemental adoritis	to about STOISS	INOR all a di	
عيا		HOLLDELP RIG REGOULS	supplemental phonty da	ta sneet PTO/SB	VUZB attached he	reto:

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DECLARATION — Utility or Design Patent Application

Direct all correspondence to: Customer Number or Bar Code Laboration		OR X Co	orrespondence address below
Name Bryan H. Opalko, Buchanan In	ngersoll, P	C. '	
Address 301 Grant Street, 20th Flo	oor		
City Pittsburgh	·	PA State	15219 ZIP
Country USA Tel	ephone 412/	562-1893	Fax 412/562-1041
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the wallity of the application or any patent issued thereon.			
A petition has been filed for this unsigned inventor			
Given Name (first and middle [if any]) Dieter Klaus Family Name Weller or Surname			
Inventor's OSA K L	125		Date 10/10/01
Residence: City Gibsonia	State PA	USA Country	German Citizenship
Malling Address 7019 Oak Park Drive	***************************************		
City Gibsonia	State PA	ZIP 15044	Country USA
NAME OF SECOND INVENTOR:	A petition has	s been filed for this unsi	gned inventor
Given Name (first and middle [if any]) Neil		Family Name Deer	nan
Inv ntor's Signature			Date
Residence: City Alamo	State CA	Country USA	Citizenship British
Mailing Address 101 Leona Court			
City Alamo	CA State	94507 ZIP	USA Country
\mathbf{x} Additional inventors are being named on th 1 su	polemental Additio	nal Inventor(s) sheet(s) PTO	VSB/02A attached besets

Please type a plus sign (+) inside this box		4:
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PTO/SB/02A (11-00)
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DECLARATION

ADDITIONAL INVENTOR(S) Supplemental Sheet Page $\underline{1}$ of $\underline{1}$

Name of Additi	ional Joint Inventor, if an	ıy:		A petition has been file	d for th	nis unsigned inventor
Give	en Name (first and middle [if any])	Family Name or Surname			
Rene Jo	hannes Marinus		v	an de Veerdonk		•
Inventor's Signature	vantible	dole		·		Date Oct 10,2001
Residence: City	Pittsburgh	State PA		Country USA		Citizenship Dutch
Mailing Address	1420 Centre Avenu	e				
Mailing Address	Apt. 2108					
City Pittsb	urgh	State PA		zip 15219 c	ountr	y USA
Name of Additi	ional Joint Inventor, if an	y:		A petition has been filed	for this	s unsigned inventor
Give	en Name (first and middle [if any])		Family Nam	e or S	umame
Nisha			Shukla			
Inventor's Signature	Arile Shukle					OCT10,0
Residence: City	Pittsburgh	State PA		Country		Indian Citizenship
Mailing Address	515 S. Aiken Aven	ue				
Mailing Address	Apt. 405		· .			·
City Pittsbu	ırgh	State PA		ZIP 15232	Cou	USA
Name of Addit	ional Joint Inventor, if ar	ıy:	□ •	A petition has been filed t	or this	unsigned inventor
Giver	n Name (first and middle [if any])			Family N	lame c	or Surname
Inventor's Signature		-				Date
Residence: City		State	\Box	Country		Citizenship
Mailing Address						
Malling Address	· · · · · · · · · · · · · · · · · · ·	-				
City		State		ZIP_	Co	untry

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010949

Weller et al.

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DECLARATION FOR UTILITY OR

DESIGN PATENT APPLICATION Attorn y D cket Numb r

COMPLETE IF KNOWN

First Named Invent r

(37 CFR 1	(37 CFR 1.63)			signed		
X Declaration	Declaration	Filing Date	Here	with		
Submitted OR with Initial	Submitted after Initial Filing (surcharge	Group Art Unit				
Filing	(37 CFR 1.16 (e)) required)	Examiner Name				
As a below named inventor, I he	As a below named inventor, I hereby declare that:					
My residence, mailing address, an	d citizenship are as stated	below next to my name	∋.			
I believe I am the original, first and names are listed below) of the sub	sole inventor (if only one ject matter which is daime	name is listed below) or ed and for which a pater	r an original, firs	t and joint inventor (if plural ne invention entitled:		
MAGNETIC RECORDING	MEDIA HAVING SE	LF ORGANIZED	MAGNETIC A	ARRAYS		
<u> </u>						
<u> </u>	(Title of the	Invention)				
the specification of which						
X is attached hereto						
* OR		····				
was filed on (MM/DD/YYYY)		as United Sta	ites Application	Number or PCT International		
			.,			
Application Number			[
Application Number	and was am	ended on (MM/DD/YYY	Υ)	(if applicable).		
I hereby state that I have reviewed amended by any amendment spec	and understand the contextically referred to above.	ents of the above identil	ied specification	, including the claims, as		
i in-oart applications, material intom	I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.					
I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.						
Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached? YES NO		
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			Ħ			
			\Box			
Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:						

PTO/SB/01 (03-01)

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DECLARATION — Utility or Design Patent Application

	Direct all correspondence to: Customer Nu	umber [
	Direct all correspondence to: Customer Nu or Bar Code				OR X Co	rrespondence address below
	Bryan H. Opalko, Buchanan Name	Inger	rsoll, PO	3.		
	Address 301 Grant Street, 20th	Floor				
	City Pittsburgh			State	PA	15219 ZIP
	Country	Telepho	one 412/5	562-1	1893	Fax 412/562-1041
14 mgm	I hereby declare that all statements made herein of rare believed to be true; and further that these state made are punishable by fine or imprisonment, or bot validity of the application or any patent issued thereon	th under				
	NAME OF SOLE OR FIRST INVENTOR:		A petition ha	as bec	en filed for this un	signed inventor
that their made have	Given Name (first and middle [if any]) Dieter Klau	ıs		Family or Sur	y Name Weller mame	
# T I T I	Inventor's Signature					Date
der Be	Residence: City Gibsonia	St	tate PA		USA Country	German Citizenship
Hart Bran Bull med aller	Malling Address 7019 Oak Park Drive					
### ##################################	City Gibsonia	St	tate PA		ZIP 15044	Country USA
`	NAME OF SECOND INVENTOR:] A [petition has	been	filed for this unsig	gned inventor
	Given Name (first and middle [if any]) Neil			Family or Sum	Deen	an
	Inventor's Signature	1	Jana	<u>~</u>		Date 10/16/01
	Residence: City Alamo	State	te CA	Co	ountry USA	Citizenship British
	Malling Address 101 Leona Court					
	City Alamo	State	CA te	ZII	94507 P	USA C untry
Į	$oxed{x}$ Additional inventors are being named on the $oxed{1}$	_supplem	nental Additior	nai Inve		

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DECLARATION

ADDITIONAL INVENTOR(S) Supplemental Sheet Page $\underline{1}_{-}$ of $\underline{-}$ $\underline{1}$

Name of Additional Joint Inventor, if a	ny:		A petition has been file	ed for th	nis unsigned inventor
Given Name (first and middle [if any])	Family Name or Sumame			
Rene Johannes Marinus		,	an de Veerdon	k	
Inventor's Signature					Date
Residence: City Pittsburgh	State PA		Country USA		Citizenship Dutch
Mailing Address 1420 Centre Avenue					
Mailing Address Apt. 2108	-		······································		
City Pittsburgh	State PA		ZIP 15219	Countr	y USA
Name of Additional Joint Inventor, if ar	ny:		A petition has been filed	d for thi	s unsigned inventor
Given Name (first and middle [if any]])		Family Name or Sumame		
Nisha			Shukla		
Inventor's Signature					Date
Residence: City Pittsburgh	State PA		USA Country		Indian Citizenship
Mailing Address 515 S. Aiken Aven	iue			•	
Malling Address Apt. 405					
City Pittsburgh	State PA		ZIP 15232	Cou	USA
Name of Additional Joint Inventor, if ar	ny:		A petition has been filed	for this	unsigned inventor
Given Name (first and middle [if any]))		Family I	Name c	or Surname
inventor's Signature					Date
Residence: City	State		Country		Citizenship
Mailing Address					
Mailing Address					
City	State		71D		

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The first first first first to the state of the the

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of : PATENT APPLICATION

DIETER K. WELLER ET AL. : MAGNETIC RECORDING MEDIA

HAVING SELF ORGANIZED MAGNETIC

Serial No.: unassigned : ARRAYS

Filed: herewith

POWER OF ATTORNEY

We, Seagate Technology LLC, a Delaware corporation, as assignee of the above-identified application, hereby appoint the following attorney(s) and/or agent(s) to prosecute and to transact all business in the Patent and Trademark Office in connection with the above-identified application: Lynn J. Alstadt, Registration No. 29,362; Jose J. Aparicio, Registration No. P-48,837; George Patrick Baier, Registration No. 26,717; Dennis M. Carleton, Registration No. 40,938; Craig G. Cochenour, Registration No. 33,666; Michael L. Dever, Registration No. 32,216; John E. Grosselin, III, Registration No. 38,478; Bryan H. Opalko, Registration No. 40,751; Michael G. Panian, Registration No. 32,623; and Carla J. Vrsansky, Registration No. 36,958 of the firm of Buchanan Ingersoll Professional Corporation.

In addition, the undersigned appoints Carol I. Bordas, Registration No. 37,284; Derek J. Berger, Registration No. 45,401; Kirk A. Cesari, Registration No. P-47,479; Shawn B. Dempster, Registration No. 34,321; Raghunath Minsandram, Registration No. 38,683; Johathan E. Olson, Registration No. 41,231 and Paul Dietz, Registration No. 38,858 of Seagate Technology LLC as attorneys and/or patent agents with the full power to represent the application in connection with this application.

Address all correspondence to:

Bryan H. Opalko

Buchanan Ingersoll Professional Corporation

One Oxford Centre

301 Grant Street, 20th Floor

Pittsburgh, Pennsylvania 15219-1410

e-mail: opalkobh@bipc.com

voice: 412-562-1893 fax: 412-562-1041

Date 11-13-01

Seagate Technology LLC

Carol I. Bordas

STATEMENT UND	ER 37 CFR 3.73(b)
Applicant/Patent Owner: Dieter K. Weller et	al.
Application No./Patent No.:unassigned	Filed/Issue Date:
Entitled: MAGNETIC RECORDING MEDIA HAVING	SELF ORGANIZED MAGNETIC ARRAYS
(Name of Assignee) (Type of A	aware corporation , ssignee, e.g., corporation, partnership, university, government agency, etc.)
	•
states that it is:	
1. 😾 the assignee of the entire right, title, and interest	t; or
 an assignee of less than the entire right, title and The extent (by, percentage) of its ownership interest. 	d interest. erest is%
in the patent application/patent identified above by virte	ue of either:
A. [] An assignment from the inventor(s) of the paten was recorded in the United States Patent and T which a copy thereof is attached.	t application/patent identified above. The assignment rademark Office at Reel, Frame, or for
OR	
B. [] A chain of title from the inventor(s), of the paten assignee as shown below:	t application/patent identified above, to the current
1. From:	To:
The document was recorded in the United Reel, Frame	States Patent and Trademark Office at, or for which a copy thereof is attached.
2. From:	To:
The document was recorded in the United	States Patent and Trademark Office at, or for which a copy thereof is attached.
3. From:	То:
The document was recorded in the United	
[] Additional documents in the chain of title a	re listed on a supplemental sheet.
[X] Copies of assignments or other documents in the characteristic [NOTE: A separate copy (i.e., the original assignments)	nain of title are attached. ent document or a true copy of the original document) dance with 37 CFR Part 3, if the assignment is to be
The undersigned (whose title is supplied below) is author	orized to act on behalf of the assignee.
11-13-01	Carol I. Bordas
11-13-01 Date	Typed or printed name
	TP DIVISION (2014)Se (

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Title

Assignment



Dieter K. Weller, Neil WHEREAS We and Nisha Shukla	Deeman, Rene Johannes Marinus van de Veerdonk
residing at Gibsonia, Allegheny Co., PA;	Alamo, Contra Costa County, CA; Pittsburgh, Allegheny Co., PA, respectively
have invented certain new and useful improvements in MAC	GNETIC RECORDING MEDIA HAVING SELF ORGANIZED MAGNETIC
for which we executed an application for United States Let	ters Patent, ARRAYS
AND WHEREAS Seagate Technology LI	LC
hereinafter called the "assignee," is desirous of acquiring and improvements therein disclosed;	the entire right, title, and interest in and to said application and the inventions
receipt whereof we hereby acknowledge, we do hereby a interest in and to said application and the inventions and and any Letters Patent which may issue therefor in the Urrenewals, and/or extensions thereof, including all priority and the Union, said assignee to have and to hold the interest.	1.00) and other good and valuable consideration paid to us by said assignee, ssign, sell, transfer, and set over unto said assignee the entire right, title, and improvements therein disclosed for the United States and all foreign countries nited States and all foreign countries and all divisions, reissues, continuations, rights under the International Convention associated therewith for each country ests herein assigned to the full ends of the terms of said Letters Patent and any extensions thereof, respectively, as fully and entirely as the same would have made.
we are the lawful owners of the said application, invention	equested to issue such Letters Patent in accordance herewith. We covenant that is, and improvements, that the same are unencumbered, that no license has been improvements or any of them, and that we have the full right to make this
representatives thereof any facts known to us respecting set to us, testify in any legal proceedings, sign all lawful per applications, make all rightful oaths, and generally do all of the per applications of the per applications. This assignment shall be binding upon our heir heirs, executors, administrators, successors, and/or assigns.	iointly and individually that we will communicate to said assignee or the said inventions and improvements, and will, upon request, but without expense sapers, execute all divisional, reissue, continuation, renewal, and/or extension other and further lawful acts, deemed necessary or expedient by said assignee or signee to obtain and enforce full benefits from the rights and interests herein rs, executors, administrators, and/or assigns, and shall inure to the benefit of the s, as the case may be, of said assignee.
=FEXECUTED	20
A mile of the control	Dieter K. Weller (SEAL)
	Neil Deeman (SEAL)
Pennsylvania	Alas (
State of Pennsylvania	Rene Johannes Marinus van de Veerdonk
Allegheny { ss:	a in Chukle
County of }	Nisha Shukla (Seal)
Before me, a Notary Public in and for the said Co Dieter K.	
wh acknowledged that they are the persons who execut act and deed.	ed the foregoing assignment and acknowledged it to be their free and voluntary
Witness my hand and notarial seal this	day of October , 200/
(Notarial Seal)	day of October , 200/ Charlette Salodhoursh' Notary Public
	Patent and Trademark Office within three months after its date of execution.

Notarial Seal Charlotte Wlodkowski, Notary Public Pittsburgh, Allegheny County My Commission Expires Apr. 12, 2004

Member, Pennsylvania Association of Notaries

	Contra Costa Scounty of	
	Before me, a Notary Public in and for the said County and Sta Neil Deeman	te, personally appeared:
	who acknowledged that he is the person who executed the foregoing a deed.	assignment and acknowledged it to be his free and voluntary act and
	Witness my hand and notarial seal this day of	·
	(Notarial Scal)	
		Notary Public
	State of Pennsylvania ss:	
	County of } ss:	
	Before me, a Notary Public in and for the said County and St Rene Johannes Marinus va	ate, personally appeared: n_de_Veerdonk
ë Ļ∔	who acknowledged that he is the person who executed the foregoing deed.	assignment and acknowledged it to be his free and voluntary act and
Hoth Mari	Witness my hand and notarial seal this day of	OCTOBEN , 2001.
1254	Witness my hand and notarial seal this day of (Notarial Seal)	Charftle Woodhamsh' Notary Public

Notarial Seal Charlotte Wlodkowski, Notary Public Pittsburgh, Allegheny County My Commission Expires Apr. 12, 2004

Member, Pennsylvania Association of Notarles

State of Pennsylvania	
County of Allegheny ss:	
Before me, a Notary Public in and for the said Co Nisha Shukla	ounty and State, personally appeared:
who acknowledged that he is the person who executed t deed.	he foregoing assignment and acknowledged it to be his free and voluntary act and
Witness my hand and notarial seal this 10	_day of October 200/
(Notarial Seal)	Chaptle Abodhaush' Notary Public

Notarial Seal Charlotte Wlodkowski, Notary Public Pittsburgh, Allegheny County My Commission Expires Apr. 12, 2004

Member, Pennsylvania Association of Notaries

Assignment

s	inus	van	de	Veerdon

	er, Neil Deeman, Rene Johannes Lainus van de Veerdonk
	y Co., PA: Alamo, Contra Costa County, CA; , PA and Pittsburgh, Allegheny Co., PA, respectively
ave invented certain new and useful impro	ovements in MAGNETIC RECORDING MEDIA HAVING SELF ORGANIZED MAGNETIC
or which we executed an application for U	
AND WHEREAS Seagate Tec	hnology LLC
nereinafter called the "assignee," is desiround improvements therein disclosed;	us of acquiring the entire right, title, and interest in and to said application and the inventions
receipt whereof we hereby acknowledge, interest in and to said application and the and any Letters Patent which may issue the renewals, and/or extensions thereof, included and the Union, said assignee to have and	f One Dollar (\$1.00) and other good and valuable consideration paid to us by said assignee, we do hereby assign, sell, transfer, and set over unto said assignee the entire right, title, and inventions and improvements therein disclosed for the United States and all foreign countries merefor in the United States and all foreign countries and all divisions, reissues, continuations, ding all priority rights under the International Convention associated therewith for each country to hold the interests herein assigned to the full ends of the terms of said Letters Patent and any renewals, and/or extensions thereof, respectively, as fully and entirely as the same would have summent not been made.
we are the lawful owners of the said application	Trademarks is requested to issue such Letters Patent in accordance herewith. We covenant that cation, inventions, and improvements, that the same are unencumbered, that no license has been inventions or improvements or any of them, and that we have the full right to make this
representatives thereof any facts known to to us, testify in any legal proceedings, s applications, make all rightful oaths, and by counsel for said assignee, to assist or assigned. This assignment shall be binding	raid, we agree jointly and individually that we will communicate to said assignee or the ous respecting said inventions and improvements, and will, upon request, but without expense sign all lawful papers, execute all divisional, reissue, continuation, renewal, and/or extension generally do all other and further lawful acts, deemed necessary or expedient by said assignee or renable said assignee to obtain and enforce full benefits from the rights and interests herein ng upon our heirs, executors, administrators, and/or assigns, and shall inure to the benefit of the rs, and/or assigns, as the case may be, of said assignee.
EXECUTED	
is a #	
	(SEAL)
	Dietar V Waller
	Dieter K. Weller Jolioloi
	Neil Deeman (SEAL)
Pennsylvania	
State of	Rene Johannes Marinus van de Veerdonk
Allegheny	SS:
County of	Nisha Shukla (Seal)
Before me, a Notary Public in an	d for the said County and State, personally appeared: Dieter K. Weller
	sons who executed the foregoing assignment and acknowledged it to be their free and voluntary
Witness my hand and notarial se	al this day of,
(Notarial Seal)	

NOTE - This assignment should be recorded in the U.S. Patent and Trademark Office within three months after its date of execution.

Notary Public

State of <u>California</u> Contra Costa County of	ss:			
Before me, a Notary Public	c in and for the said County an eil Deeman	d State, personally appe	ared:	
who acknowledged that he is the p deed. Witness my hand and nota	person who executed the forego arial seal this day of		nowledged it to be his	free and voluntary act and
Co Note	HEATHER R. BAKER Hammission # 1293229 Try Public - California Selection Adameda County Heather Reports Feb 5, 2005	Huis	Notary Public	Les

Ü

State of	f Pennsylvania }	
LI [] []County []	Alloinham.	· .
FII	Before me, a Notary Public in and for the said County an Rene Johannes Marinus	
	knowledged that he is the person who executed the foreg	oing assignment and acknowledged it to be his free and voluntary act and
ru C	Witness my hand and notarial seal this day of	· · · · · · · · · · · · · · · · · · ·
[] [](Notari	ial Seal)	
ter Li		Notary Public

State of Pe	بخي		
· •	Allegheny		SS:
County of _	- MIICE MENT	}}	



County of Allegheny			
Before me, a Notary Public in and for the said County and State, personally appeared: Nisha Shukla			
who acknowledged that he is the person who executed the foregoing deed.	g assignment and acknowledged it to be his free and voluntary act and		
Witness my hand and notarial seal this day of			
(Notarial Seal)			
	Notary Public		

· .